WHAT IS CLAIMED IS:

	1.	A biopsy instrument comprising.
		a base assembly including a firing mechanism;
5		a probe assembly detachably mounted to said base assembly, said
		probe assembly comprising:
		a cutter assembly comprising:
		a cutter;
		a gear mechanism adapted to move said cutter;
10		a piercer assembly comprising:
		a piercer;
		a probe mount;
		a drive assembly detachably mounted to said cutter assembly, said
		drive assembly comprising:
15		a flexible drive shaft;
		a transmission comprising:
		a first bevel gear operatively connected to a distal end
		of said flexible drive shaft;
		a second bevel gear intermeshed with said first bevel
20		gear and operatively connected to said gear
		mechanism.
	2.	A biopsy instrument comprising:
		a base assembly including a firing mechanism;
25		a probe assembly detachably mounted to said base assembly, said
		probe assembly comprising:
		a cutter assembly comprising:
		a cutter;
		a first drive gear;
30		a gear mechanism adapted to move said cutter wherein
		said gear mechanism includes a second drive gear
		adapted to mesh with said first drive gear;

	a piercer including a cutter lumen adapted to receive
	said cutter;
	a probe mount adapted to slideably connect said
5	piercer to said cutter assembly;
	a drive assembly detachable mounted to said cutter assembly, said
	drive assembly comprising:
	a flexible drive shaft adapted to be connected at its proximal
10	end to a control unit including a motor;
	a transmission adapted to transmit motion from a distal end of
	said flexible drive shaft to said gear mechanism, said
	transmission comprising:
	a first bevel gear operatively connected to a distal end
15	of said flexible drive shaft;
	a second bevel gear intermeshed with said first bevel
	gear at a first angle with respect to said first bevel gear
	and operatively connected to a releasable drive
	mechanism adapted to slideably connect with a
20	proximal end of said gear mechanism.
	2 A died instrument coordinate Claim 2 edd medical instrument forther
	3. A medical instrument according to Claim 2, said medical instrument further
	comprising a coupling alignment sleeve operatively connected to said releasable drive mechanism.
25	dive mechanism.
23	4. A transmission assembly for a medical instrument said transmission
	assembly comprising:
	a mounting bracket;
	a transmission plate;
30	a rotation coupling assembly comprising:
	a rotation gear;
	a rotation drive coupling;

a piercer assembly comprising:

a translation coupling assembly comprising: a translation gear; a translation drive coupling; a thumbwheel rotation assembly comprising: 5 a port drive coupling; a first port gear; a second port gear; a knob post; an electrical cable strain relief; a clamping plate assembly comprising: 10 a rotational bevel gear; a translational bevel gear; a rotation shaft; a translation shaft; 15 an encoder assembly comprising: a first bearing assembly comprising: a bearing;

a flex relief.

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5. The transmission assembly of Claim 4 further comprising a gear adapter with and elongated adapter slot operatively connected to said rotation bevel gear.

an encoder;